

DP18 Series

Model DP18-AT2

AC Ammeter

INSTRUCTION
SHEET

M2099/1294



AC AMMETER for current transformer X/5

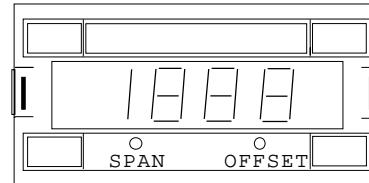
THE INPUT ALLOWS DIRECT CONNECTION TO A CURRENT TRANSFORMER (CT) WITH A 5 A. SECONDARY, WITHOUT NEED FOR AN INTERMEDIATE STEPDOWN.

SPECIFICATIONS

DISPLAYS.....	3½ digits, 7 segment, red LED
HEIGHT.....	0.56" (14.2 mm.)
SYMBOLS.....	1.8.8.8
DECIMALPOINTS.....	Selectable by jumpers
OVERRANGE INDICATION.....	Display flashes
INPUT CONFIGURATION.....	Bipolar single
ZERO.....	Automatic
SPANADJUSTMENT.....	± 5 %
CONVERTER.....	Dual-slope, average value
SIGNAL INTEGRATION PERIOD.....	80 ms.
READ RATE.....	3.12 / sec.
RANGES.....	See table selection fig. 3
HOLD.....	Optional
NOISE REJECTION NMR.....	50 dB, 50/60 Hz.
ACCURACY.....	0.2 % ± 1 count
WARMUP TO RATED ACCURACY.....	5 minutes
SPAN TEMP CO.....	150 ppm.
ZERO TEMP CO.....	2.5 μ V/°C.
OPERATING TEMPERATURE.....	0 to 50 °C (32 to 122 °F)
STORAGE TEMPERATURE.....	-40 to 80 °C (-40 to 176 °F)
WEIGHT.....	310 gr. (0.68 lb)
CASE MATERIAL.....	ABS, DIN 43700, black color
STANDARD POWER.....	115 Vac. ± 10 %, 50/60 Hz.
POWER CONSUMPTION.....	5.5 VA for AC.
ELECTRICAL CONNECTIONS.....	Push-in cable connectors
BURN-IN.....	24 h.

FIG. 1

FRONT VIEW

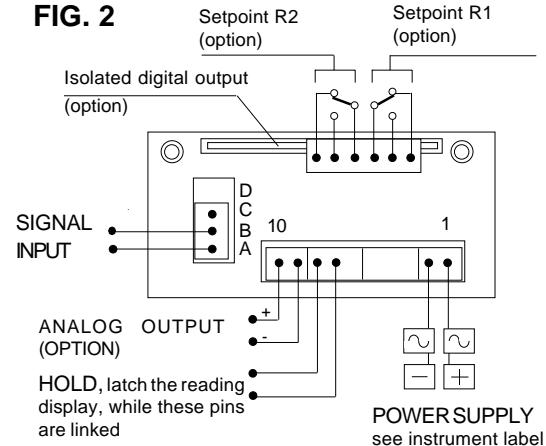


SPAN: ADJUST THE MAXIMUM READING.

OFFSET: NOT IN SERVICE

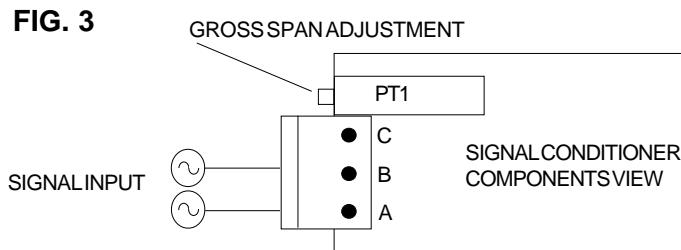
SPAN ADJUSTMENT IS ACCESSIBLE BEHIND THE LOW DOOR.

REAR VIEW



RANGE SELECTION

FIG. 3



SELECTOR S1

PLACE THE PLUG-IN JUMPER ON THE SELECTOR S1, IN FUNCTION OF THE NOMINAL CURRENT TRANSFORMER, AND THE DECIMAL POINT JUMPER ON THE CORRESPONDING POSITION (FIG.5), TO OBTAIN THE INDICATED PERFORMANCE, USE CURRENT TRANSFORMERS CLASS 0.5 OR BETTER.

I NOMINAL Amp.AC	READING Amp.AC	CLOSE JUMPER	RESOLUTION Amp.AC
5	5.00	D	0.01
10	10.00	F	
15	15.0	A	
25	25.0	B	
40	40.0	C	
50	50.0	D	
60	60.0	E	
100	100.0	F	

I NOMINAL Amp.AC	READING Amp.AC	CLOSE JUMPER	RESOLUTION Amp.AC
150	150.0	G	0.1
250	250	B	
400	400	C	
500	500	D	
600	600	E	
1000	1000	F	
1500	1500	G	

OPTIONS AND POWER SUPPLIES AVAILABLE FOR DP18 Series

CONTROL/OUTPUT/COMMUNICATIONS OPTIONS
Select a maximum of one option from each column

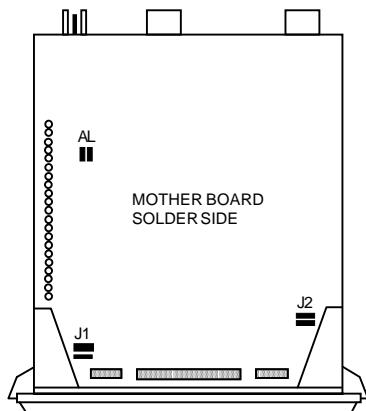
OPTION	DESCRIPTION	OPTION	DESCRIPTION
BCD R1 R2 APH1 232	PARALLEL BCD, OPTOISOLATED SINGLE SETPOINT, 3 Amp. Relay DUAL SETPOINT, 3 Amp. Relays ANALOG PEAK HOLD ISOLATED SERIAL OUTPUT RS-232	A01 A02 A03 APH2	ANALOG OUTPUT, mA SINK ANALOG OUTPUT, mA SOURCE ANALOG OUTPUT, VOLTAGE ANALOG PEAK HOLD

POWER SUPPLY OPTIONS

OPTION	POWER	OPTION	POWER
230	230 Vac 50/60 Hz	15/30 Vdc	15...30 Vdc. -10% (3.5 W) isolated
STD	115 Vac 50/60 Hz	24/65 Vdc	24...65 Vdc (4 W) isolated
24	24 Vac 50/60 Hz		
48	48 Vac 50/60 Hz		

SELECTION OF : DECIMAL POINTS AND SPECIAL OPTIONS

FIG. 4

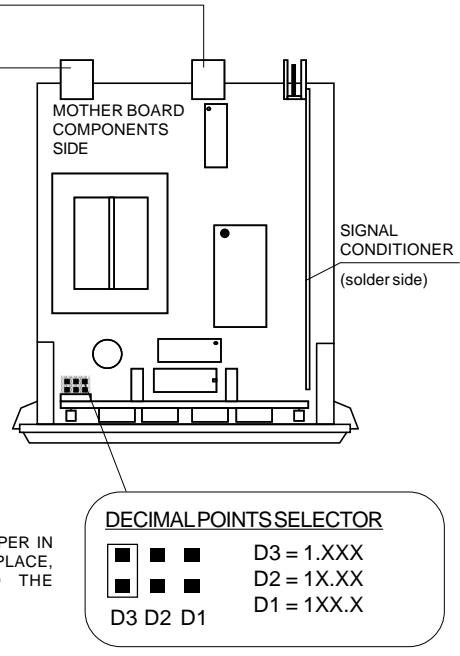


JUMPERS SELECTION FOR SPECIAL OPTIONS

AL: OPEN ONLY WHEN ALARM SETPOINT CARD OPTION IS ADDED
J1: OPEN TO ELIMINATE THE LEAST-SIGNIFICANT DIGIT(LSD)
J2: OPEN TO ELIMINATE THE INDICATION ±

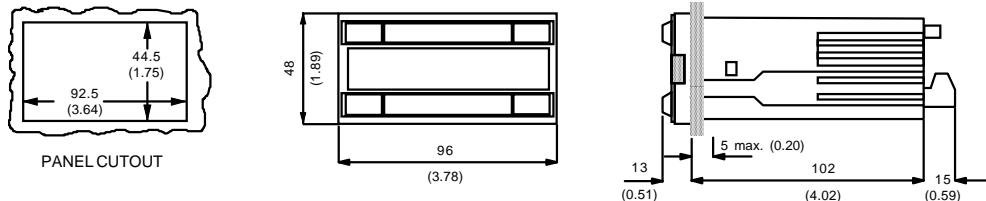
CONNECTOR FOR ANALOG OUTPUT
(OPTIONAL)POWER SUPPLY
CONNECTOR

FIG. 5



MECHANICAL DIMENSIONS mm (in)

FIG. 6



WARRANTY/DISCLAIMER

OMEGA warrants this unit to be free of defects in materials and workmanship and to give satisfactory service for a period of **13 months** from date of purchase. OMEGA Warranty adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product. If the unit should malfunction, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective it will be repaired or replaced at no charge. However, this **WARRANTY** is VOID if the unit shows evidence of having been tampered with or shows evidence of being damaged as a result of excessive corrosion; or current; heat; moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components which wear or which are damaged by misuse are not warranted. These include contact points, fuses and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However **OMEGA** neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by **OMEGA**, either verbal or written. **OMEGA** only warrants that the parts manufactured by it will be as specified and free of defects. **OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.**

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Servicing USA and Canada: Call OMEGA Toll Free
USA Canada

One Omega Drive, Box 4047
Stamford, CT 06907-0047
Telephone: (203) 359-1660
FAX: (203) 359-7700

976 Berger
Laval (Quebec) H7L 5A1
Telephone: (514) 856-6928
FAX: (514) 856-6886

Sales Service: 1-800-826-6342/1-800-TC-OMEGASM
Customer Service: 1-800-622-2378/1-800-622-BESTSM
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Servicing Europe: One OMEGA Drive, River Bend
Technology Centre

Northbank, Irlam, Manchester
M44 5EX, England
Telephone: 44 (161) 777-6611 FAX: 44 (161) 777-6622

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the **OMEGA ENGINEERING** Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO **OMEGA**, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM **OMEGA'S CUSTOMER SERVICE DEPARTMENT** (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting **OMEGA**:

1. P.O. number under which the product was PURCHASED.
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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FOR **NON-WARRANTY** REPAIRS, consult **OMEGA** for current repair charges. Have the following information available BEFORE contacting **OMEGA**:

1. P.O. number to cover the COST of the repair,
2. Model and serial number of product, and
3. Repair instructions and/or specific problems relative to the product.